UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

April 4, 2013

Quinn Ogletree – Owner
2232 East River Road
Moraine, Ohio 45439

Dear Mr. Ogletree

Re: Summary of Results from 2012-2013 Vapor Intrusion Study
South Dayton Dump and Landfill Site – Building 29

The United States Environmental Protection Agency (EPA) prepared this letter to inform you of the results of the sub-slab (space under your building floor) and indoor air samples collected from your property in 2012 and 2013. Samples were collected as part of the vapor intrusion (VI) investigation at the South Dayton Dump and Landfill (SDDL) Site. Conestoga-Rovers & Associates (CRA) collected these samples to determine if solvent- or petroleum-related compounds (see Table 1) are present in soil vapor beneath the foundations and in the indoor air of your properties at concentrations which exceed sub-slab and/or indoor air VI screening levels, as established by the Ohio Department of Health (ODH).

VI is the migration of volatile chemicals from the subsurface into overlying buildings. VI is a potential concern at any building, existing or planned, located near soil, groundwater, or soil vapor containing solvent- or petroleum-related compounds that may volatilize or chemicals that are combustible.

The samples were collected by CRA and submitted to TestAmerica Inc. CRA received and validated the results of the laboratory analysis and submitted those results to the U.S. EPA.

The ODH has recommended the screening levels for sub-slab and indoor air samples. The screening levels represent concentrations of a substance that are unlikely to cause harmful (adverse) health effects in exposed people. Detections in indoor air below these levels are not of a health concern. A summary of the analytical results and comparisons to the ODH screening levels can be found in Table 1**.**

Compounds detected at concentrations greater than the ODH screening levels from sub-slab and indoor air samples are presented below. All of the air samples are measured in units called parts per billion by volume (ppbv). A map identifying each sample location within your buildings can be found in **Attachment A**.

TABLE 1

SUMMARY OF 2012 AND 2013 SAMPLING RESULTS
FOR
QUINN OGLETREE RESIDENCE

Building / Probe	Sampling Date	Sample Type	Parameter	Detected Concentration (ppbv)	ODH Screening Level (ppbv)
Building 29 / Probe A	8-1-12	Sub-Slab	Benzene Chloroform	0.056 U 0.43	4 200
Building 29 / Probe A	9-13-12	Sub-Slab	Benzene Chloroform	0.056 U 0.96	4 200
Building 29 / Probe A	9-13-12	Indoor Air	Benzene[A] [B] Chloroform[A]	**0.99 / 0.76** **140 / 120**	0.4 20
Building 29 / Probe B	1-9-13	Sub-Slab	Benzene Chloroform	0.056 U 0.038 U	4 200

Notes:
[A] – This compound was not detected in the co-located sub-slab soil vapor sample, indicating that the indoor air concentration is not due to vapor intrusion
[B] – Chemical was detected in the associated outdoor air sample
J – Estimated Quantity
U – Not Detected

What do these results mean?

Building 29 (2232 East River Road)

In September 2012, CRA collected one sub-slab and one indoor air sample from the property. The sample results for each of the samples showed that all compounds were detected at concentrations less than the ODH screening levels for sub-slab and indoor air samples, except for benzene and chloroform, which were observed in the indoor air sample at a maximum concentration of 0.99 and 140 ppbv, respectively. These two results exceeded the ODH benzene and chloroform indoor air screening levels of 0.4 and 20 ppbv, respectively.

In January 2013, CRA installed and collected a new sub-slab sample to determine if benzene and/or chloroform concentrations were accumulating beneath the slab of the property and potentially causing vapor intrusion. The sample results did not show benzene or chloroform concentrations above each respective ODH sub-slab screening level.

In summary, benzene and chloroform were not detected in the three sub-slab samples collected at the property at concentrations greater than each chemical's respective ODH sub-slab screening level, indicating that the indoor air exceedances are not due to vapor intrusion.

Based on the laboratory results of the sub-slab and indoor air samples collected from Building 29, the EPA and ODH conclude that no additional sampling is required, at this time.

The EPA and ODH would like to take this opportunity to thank you for participating in this important investigation.

If you have health-related questions, please contact Dr. Bob Frey at the ODH at 614-466-1069. If you have questions related to the sampling or on-going site investigation, please visit our website at www.epaosc.org/southdaytondumpsite or contact me at 513-569-7539.

Sincerely,

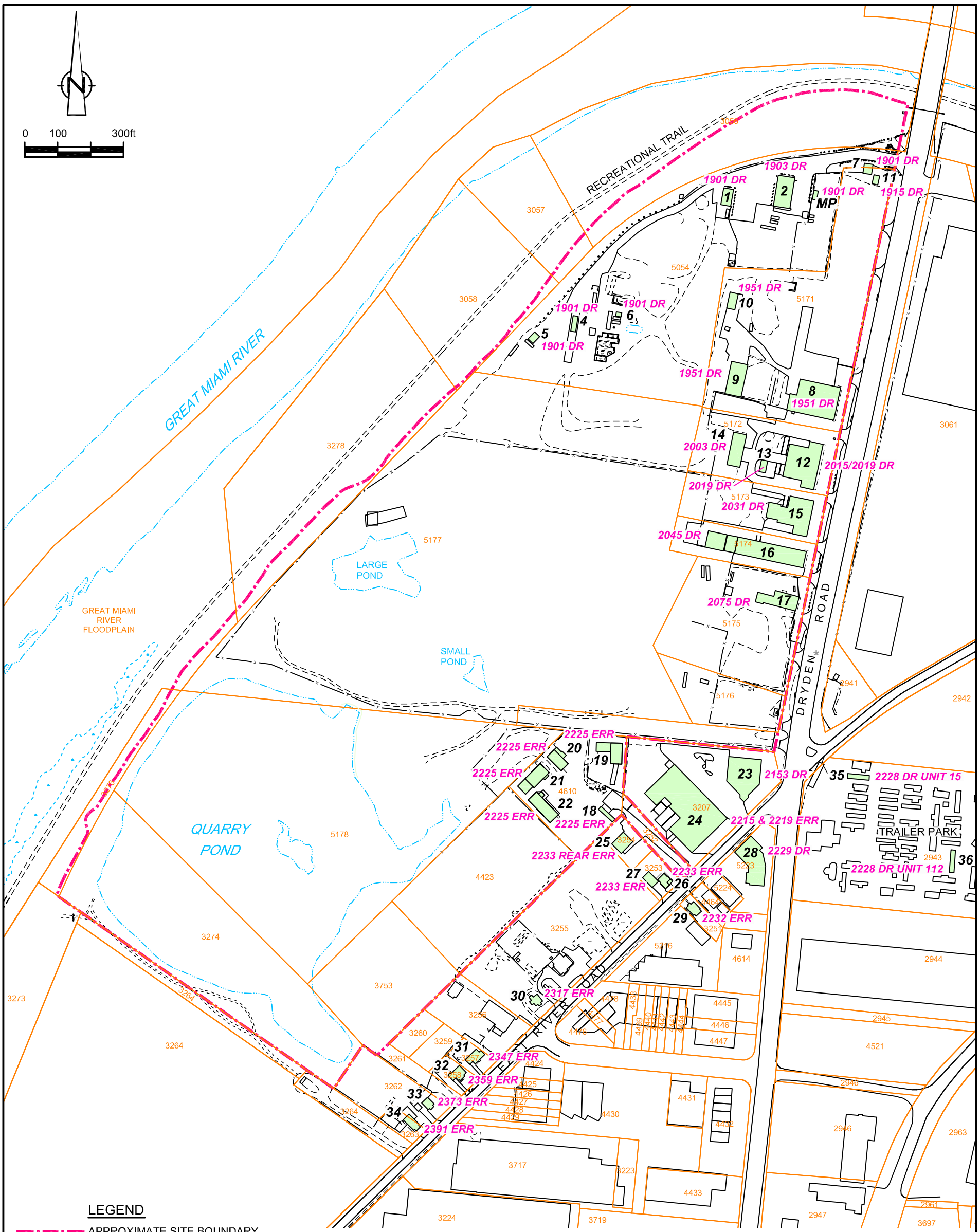
Steven L. Renninger
On-Scene Coordinator
EPA Region 5

Attachments:
A – Sample Location Map
B – Validated Analytical Results

cc: Leslie Patterson - EPA Remedial Program Manager
Laura Marshall - Ohio EPA, Site Coordinator
Adam Loney, CRA
Site File

ATTACHMENT A

SAMPLE LOCATION MAP



LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- **ERR** EAST RIVER ROAD
- **DR** DRYDEN ROAD
- 3263 PARCEL NUMBER
- ***1*** USEPA REMOVAL PROGRAM BUILDING NUMBER
- ***2391 ERR*** ADDRESS

NOTE: 1901 DRYDEN ROAD PARCEL 5054 BUILDING 3 WAS DEMOLISHED IN FEBRUARY 2012.

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

MITIGATION SUMMARY DATABASE BUILDING NUMBERS
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-62(PRES025)GN-WA001 OCT 18/2012

LEGEND

APPROXIMATE SITE BOUNDARY

EDGE OF WATER

PARCEL BOUNDARY

SUB SLAB SOIL VAPOR BUILDING LOCATION

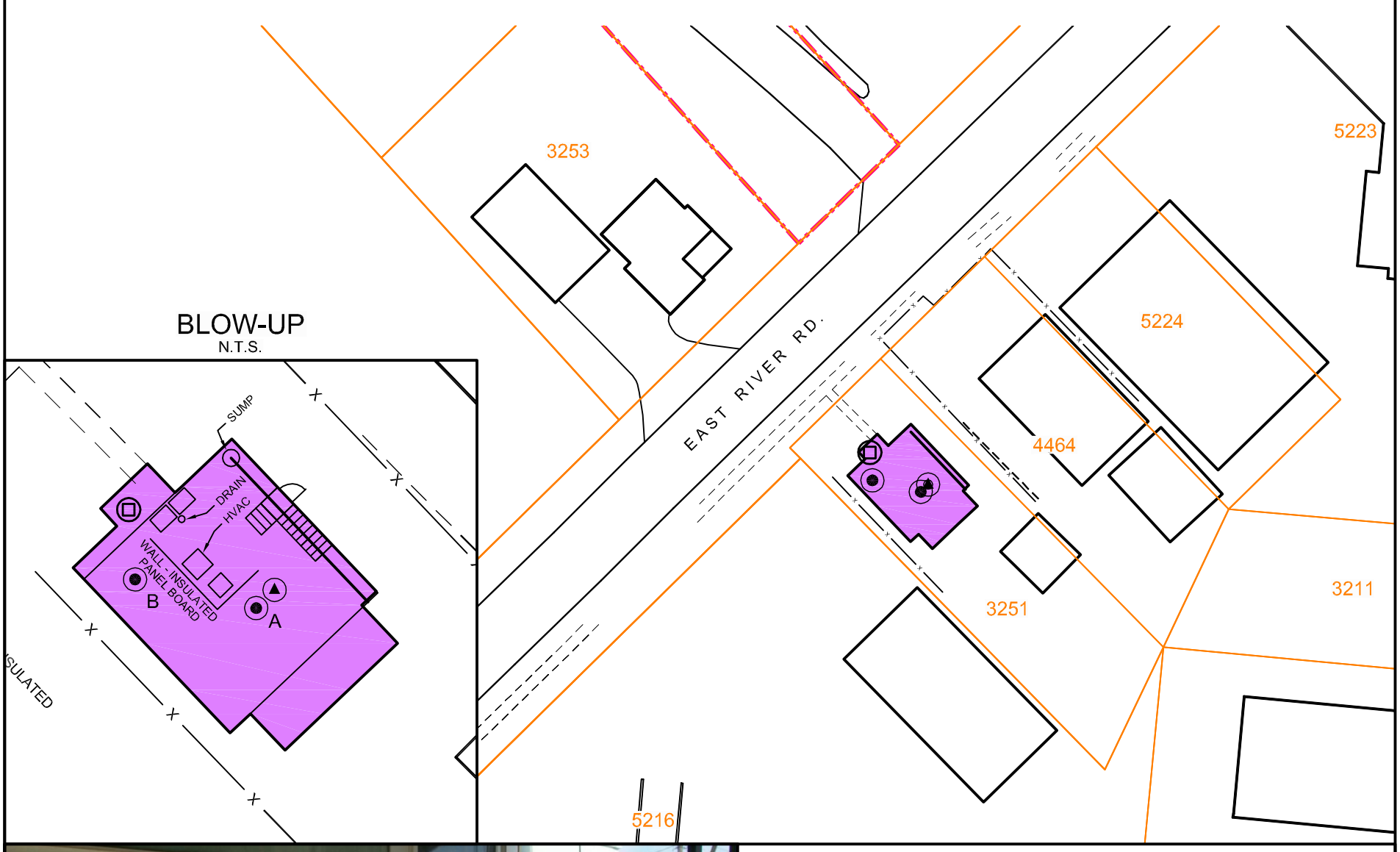
SUB SLAB SOIL VAPOR SAMPLE LOCATION

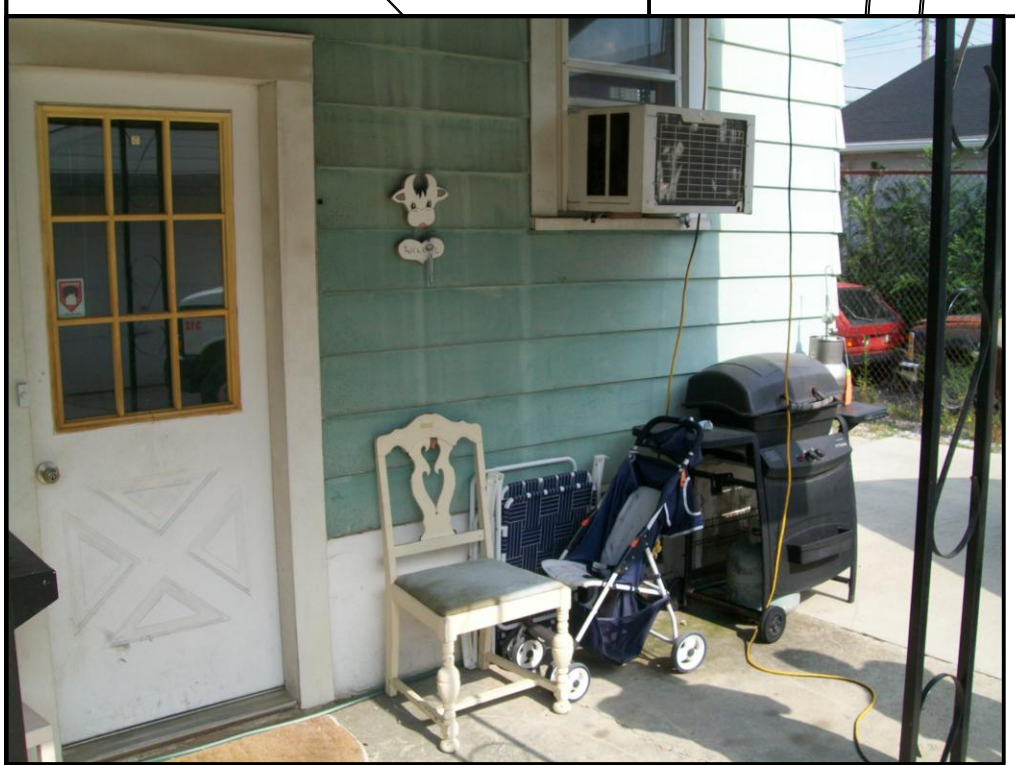
OUTDOOR AIR SAMPLE LOCATION

INDOOR AIR SAMPLE LOCATION

NV NO VALUE

0 20 50ft





PROFILE VIEW

N.T.S.

Building Characteristics:
Two-story, residential building. 760 sq. ft. building with unfinished basement. Building is constructed of poured concrete, with siding. Basement floor contains sump and small drain. Building is insulated, with average air tightness. Heating provided by forced air natural gas furnace, and kerosene space heaters, Central A/C and fireplace present. Exterior openings - windows. Latex caulk, linoleum tile, latex paint, cleaners, degreasers, disinfectants, aerosol spray paints, and furniture polish are stored in the building. Painting of first floor and building exterior occurred within past year. Building occupants smoke. Smoke and food odors observed.

PARCEL 3251, BUILDING 29
2232 EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

ATTACHMENT B

VALIDATED ANALYTICAL RESULTS

TABLE 1

SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDING 29 - 2232 EAST RIVER ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Building 29, Probe A*	*Building 29, Probe A*	*Parcel 3251, Bldg 29, Probe B*
Sample Location:				*2232 East River Road*	*2232 East River Road*	*2232 East River Road*
Sample Date:				*8/1/2012*	*9/13/2012*	*1/9/2013*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Residential)* *a*	*ODH Sub-Slab Action Levels (Residential)* *b*			
Volatile Organic Compounds						
1,1,1-Trichloroethane	ppb	NC	NC	11	11	2.6
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	37	370	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.098 UJ	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.35	0.063 U	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.039 U	0.039 U	0.039 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.30 J	0.20 U	0.34 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	0.058 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.066 J	0.066 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.045 U	0.045 U	0.045 U
Acetone	ppb	NC	NC	3.8 J	1.4 U	4.2 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U
Benzene	ppb	4	40	0.056 U	0.056 U	0.056 U
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	0.16 J	0.064 U	0.49
Carbon disulfide	ppb	NC	NC	0.040 J	0.031 U	0.045 J
Carbon tetrachloride	ppb	NC	NC	0.039 J	0.038 U	0.038 U
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U

TABLE 1

SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDING 29 - 2232 EAST RIVER ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Building 29, Probe A*	*Building 29, Probe A*	*Parcel 3251, Bldg 29, Probe B*
Sample Location:				*2232 East River Road*	*2232 East River Road*	*2232 East River Road*
Sample Date:				*8/1/2012*	*9/13/2012*	*1/9/2013*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Residential)* *a*	*ODH Sub-Slab Action Levels (Residential)* *b*			
Chlorodifluoromethane	ppb	NC	NC	0.31	0.21	0.15 J
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	200	2000	0.43	0.96	0.038 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.18 J	0.16 U	0.16 U
cis-1,2-Dichloroethene	ppb	88	880	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	0.040 U	0.040 U	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.057 U	0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.28 J	0.48	0.41
Ethylbenzene	ppb	600	6000	0.068 U	0.068 U	0.068 U
Hexachlorobutadiene	ppb	NC	NC	0.078 U	0.078 UJ	0.078 U
Hexane	ppb	NC	NC	0.041 J	0.032 U	0.14 J
Isopropyl alcohol	ppb	NC	NC	0.40 J	0.044 U	0.28 J
Isopropyl benzene	ppb	NC	NC	0.060 U	0.060 U	0.060 U
m&p-Xylenes	ppb	500	5000	0.12 U	0.12 U	0.12 U
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	0.045 U	0.85	0.97
Naphthalene	ppb	7	NC	0.13 J	0.090 UJ	0.090 U
N-Butylbenzene	ppb	NC	NC	0.046 U	0.046 U	0.046 U
N-Decane	ppb	NC	NC	0.33 J	0.056 UJ	-
N-Dodecane	ppb	NC	NC	0.12 J	0.078 U	-
N-Heptane	ppb	NC	NC	0.047 U	0.047 U	0.047 U
Nonane	ppb	NC	NC	0.14 J	0.043 U	-
N-Propylbenzene	ppb	NC	NC	0.056 U	0.056 U	0.056 U
N-Undecane	ppb	NC	NC	0.16 J	0.062 U	-
Octane	ppb	NC	NC	0.036 U	0.036 U	-
o-Xylene	ppb	500	5000	0.061 U	0.061 U	0.061 U
Pentane	ppb	NC	NC	0.060 U	0.060 U	-
Styrene	ppb	NC	NC	0.058 U	0.058 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC	0.11 J	0.038 UJ	0.069 J
tert-Butylbenzene	ppb	NC	NC	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	60	600	12	14	0.23
Tetrahydrofuran	ppb	NC	NC	0.063 U	0.063 U	0.063 U
Toluene	ppb	NC	NC	0.10 J	0.054 U	0.054 U
trans-1,2-Dichloroethene	ppb	NC	NC	0.050 U	0.050 U	0.050 U

TABLE 1

SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDING 29 - 2232 EAST RIVER ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Building 29, Probe A*	*Building 29, Probe A*	*Parcel 3251, Bldg 29, Probe B*
Sample Location:				*2232 East River Road*	*2232 East River Road*	*2232 East River Road*
Sample Date:				*8/1/2012*	*9/13/2012*	*1/9/2013*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Residential)* *a*	*ODH Sub-Slab Action Levels (Residential)* *b*			
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	4	40	0.036 U	0.036 U	0.036 U
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.44	0.41	0.23
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.11 J	0.031 U	0.052 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	4	40	0.071 U	0.071 U	0.071 UJ
Xylenes (total)	ppb	NC	NC	-	-	-
Gases						
Methane	%	0.5	0.5	0.18 U	0.20 U	-
Field Parameter						
Methane, field (unfiltered)	%	0.5	0.5	-	-	0 / 0
Methane, field (filtered)	%	0.5	0.5	0 / 0	-	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
- Concentration was greater than applicable criteria.

TABLE 2

SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDING 29 - 2232 EAST RIVER ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Building 29, Outdoor Air*	*Building 29, IA_A*	*Building 29, IA_A*
Sample Location:				*2232 East River Road*	*2232 East River Road*	*2232 East River Road*
Sample Date:				*9/13/2012*	*9/13/2012*	*9/13/2012*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Residential)*	*ODH Indoor Air Action Levels (Residential)*			
		a	*b*			
Volatile Organic Compounds						
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.060 U	0.060 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.12 U	0.12 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.11 U	0.11 U
1,1-Dichloroethane	ppb	3.7	37	0.026 U	0.052 U	0.052 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.064 U	0.064 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.20 UJ	0.20 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.22	0.29 J	0.35 J
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.088 U	0.088 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.14 U	0.14 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.094 U	0.094 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.10 U	0.10 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.064 U	0.064 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.13 U	0.13 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.13 U	0.13 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.13 U	0.13 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.13 U	0.13 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.16 U	0.16 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.29 J	0.34 J	0.29 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.68 J	4.5	5.2
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.13 U	0.13 U
2-Hexanone	ppb	NC	NC	0.058 U	0.12 U	0.12 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.13 U	0.13 U
4-Ethyl toluene	ppb	NC	NC	0.074 J	0.13 U	0.13 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	3.9	0.090 U	0.090 U
Acetone	ppb	NC	NC	7.7	660	640
Allyl chloride	ppb	NC	NC	0.048 U	0.096 U	0.096 U
Benzene	ppb	0.4	4	0.38	**0.99[a]**	**0.76[a]**
Benzyl chloride	ppb	NC	NC	0.078 U	0.16 U	0.16 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.13 J	0.10 J
Bromoform	ppb	NC	NC	0.048 U	0.096 U	0.096 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.064 U	0.064 U
Butane	ppb	NC	NC	1.5	7.7	7.0
Carbon disulfide	ppb	NC	NC	0.031 U	0.099 J	0.092 J
Carbon tetrachloride	ppb	NC	NC	0.091 J	0.12 J	0.095 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.098 U	0.098 U

TABLE 2

SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDING 29 - 2232 EAST RIVER ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Building 29, Outdoor Air*	*Building 29, IA_A*	*Building 29, IA_A*
Sample Location:				*2232 East River Road*	*2232 East River Road*	*2232 East River Road*
Sample Date:				*9/13/2012*	*9/13/2012*	*9/13/2012*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Residential)* *a*	*ODH Indoor Air Action Levels (Residential)* *b*			
Chlorodifluoromethane	ppb	NC	NC	0.56	0.64	0.54
Chloroethane	ppb	NC	NC	0.035 U	0.070 U	0.070 U
Chloroform (Trichloromethane)	ppb	20	200	4.2	140[a]	120[a]
Chloromethane (Methyl chloride)	ppb	NC	NC	0.68	2.6	2.3
cis-1,2-Dichloroethene	ppb	8.8	88	0.060 U	0.12 U	0.12 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.15 U	0.15 U
Cyclohexane	ppb	NC	NC	0.23 J	0.37 J	0.31 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.16 J	0.20 J
Dibromochloromethane	ppb	NC	NC	0.042 U	0.084 U	0.084 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.53	0.62	0.53
Ethylbenzene	ppb	60	600	0.25	0.70	0.73
Hexachlorobutadiene	ppb	NC	NC	0.078 UJ	0.16 UJ	0.16 UJ
Hexane	ppb	NC	NC	0.54	0.66 J	0.63 J
Isopropyl alcohol	ppb	NC	NC	0.99 J	15	16
Isopropyl benzene	ppb	NC	NC	0.060 U	0.12 U	0.12 U
m&p-Xylenes	ppb	50	500	0.87	2.1	2.3
Methyl methacrylate	ppb	NC	NC	0.079 U	0.16 U	0.16 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.34 U	0.34 U
Methylene chloride	ppb	NC	NC	0.38 U	36	32
Naphthalene	ppb	0.7	NC	0.090 UJ	0.18 UJ	0.18 UJ
N-Butylbenzene	ppb	NC	NC	0.046 U	0.092 U	0.092 U
N-Decane	ppb	NC	NC	0.21 J	0.46 J	0.49 J
N-Dodecane	ppb	NC	NC	0.11 J	0.34 J	0.24 J
N-Heptane	ppb	NC	NC	0.59	2.8	2.4
Nonane	ppb	NC	NC	0.067 J	0.42 J	0.45 J
N-Propylbenzene	ppb	NC	NC	0.056 U	0.11 U	0.11 U
N-Undecane	ppb	NC	NC	0.17 J	0.31 J	0.25 J
Octane	ppb	NC	NC	0.090 J	1.0	0.84
o-Xylene	ppb	50	500	0.31	0.55	0.64
Pentane	ppb	NC	NC	1.5	8.0	7.2
Styrene	ppb	NC	NC	0.058 U	3.1	3.8
tert-Butyl alcohol	ppb	NC	NC	0.041 J	0.56 J	0.59 J
tert-Butylbenzene	ppb	NC	NC	0.066 U	0.13 U	0.13 U
Tetrachloroethene	ppb	6	60	0.13 J	0.69	0.58
Tetrahydrofuran	ppb	NC	NC	0.066 J	0.64 J	0.72 J
Toluene	ppb	NC	NC	1.6	5.3	4.9
trans-1,2-Dichloroethene	ppb	NC	NC	0.050 U	0.10 U	0.10 U

TABLE 2

SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDING 29 - 2232 EAST RIVER ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Building 29, Outdoor Air*	*Building 29, IA_A*	*Building 29, IA_A*
Sample Location:				*2232 East River Road*	*2232 East River Road*	*2232 East River Road*
Sample Date:				*9/13/2012*	*9/13/2012*	*9/13/2012*
Parameter	***Units***	***ODH Indoor Air Screening Levels (Residential)*** ***a***	***ODH Indoor Air Action Levels (Residential)*** ***b***			
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.096 U	0.096 U
Trichloroethene	ppb	0.4	4	0.036 U	0.072 U	0.072 U
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.35	0.48	0.44
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.082 J	0.084 J	0.077 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	0.070 U	0.070 U
Vinyl chloride	ppb	0.4	4	0.071 U	0.14 U	0.14 U
Xylenes (total)	ppb	NC	NC	-	-	-
Gases						
Methane	%	0.05	0.05	**0.18 U[ab]**	**0.18 U[ab]**	**0.18 U[ab]**

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
 - Concentration was greater than applicable criteria.